

WHAT IS CLAIMED IS:

1. A data backup system, comprising:
  - a wearable computer including a receiving device to receive backup data and a backup-data writing device to write the backup data to a second storage device; and
  - a portable information terminal that carries out data communication with the wearable computer; the portable information terminal including,
    - a first storage device to store predetermined data, a history of updates of the data, and a history of backups of the data and
    - an extracting device to read the update history and the backup history from the first storage device, compare the time of the last backup indicated by the backup history with the time of the last update indicated by the update history, search for data newly updated since the time of the last backup, extract the newly updated data as the backup data, and a data sending device to send the backup data extracted.
2. The data backup system according to Claim 1,
  - the portable information terminal further comprising:
    - a data compressing device to compress the backup data, and the sending device sends the compressed backup data,
    - and the wearable computer further comprises:
      - a data expanding device to expand the compressed backup data received by the receiving device.
3. The data backup system according to Claim 1,
  - the predetermined data and the backup data each including an identifier representing the predetermined data,
  - and the backup-data writing device compares an identifier of backup data stored in advance in the second storage device with an identifier of the backup data received, and writes the backup data received in the second storage device when these identifiers coincide with each other.
4. The data backup system according to Claim 1,
  - the first storage device further storing in advance a predetermined communication identifier,
  - the sending device sending a communication-connection request using the communication identifier,
  - and the wearable computer further comprising:

an authenticating device to compare a communication identifier received by the receiving device with a communication identifier stored in advance in the second storage device, and permitting connection by the portable information terminal when these identifiers coincide with each other.

5. A wearable computer that carries out data communication with a portable information terminal, comprising:

a first receiving device to receive a communication identifier of the portable information terminal from the portable information terminal;

an authenticating device to compare the communication identifier received with a communication identifier stored in advance in predetermined storage device, and permitting connection by the portable information terminal when these identifiers coincide with each other;

a second receiving device to receive backup data from the portable information terminal when connection has been permitted by the authenticating device; and

a backup-data writing device to write the backup data in the storage device.

6. A mail transmission system, comprising:

a wearable computer including an input device to receive input of mail information, a data compressing device to compress the mail information that has been input and a first sending device to send the compressed mail information to the portable information terminal; and

a portable information terminal that carries out data communication with the wearable computer, including a receiving device to receive the compressed mail information, a data expanding device to expand the compressed mail information received and a second sending device to send the expanded mail information to a destination address indicated by the mail information.

7. An image-information transmission system, comprising:

a wearable computer including an input device to receive input specifying image data to be transmitted, a data compressing device to compress the image data if the amount of the image data specified is greater than or equal to a predetermined threshold and a sending device to send the compressed image data; and

a portable information terminal that carries out data communication with the wearable computer, the portable information terminal including a receiving device to receive the compressed image data, a data expanding device to expand the compressed image data

received and an image-data writing device to write the expanded image data in a predetermined storage device.

8. An image-information transmission system, comprising:

a wearable computer including a receiving device to receive the compressed image data and an image-data writing device to write the compressed image data in a predetermined storage device; and

a portable information terminal that carries out data communication with the wearable computer, the portable information terminal including an input device to receive input specifying image data to be transmitted, a data compressing device to compress the image data if the amount of the image data specified is greater than or equal to a predetermined threshold and a sending device to send the compressed image data.

9. A data backup method to back up data in a data backup system including a wearable computer and a portable information terminal that carries out data communication with the wearable computer, comprising:

the portable information terminal,

reads from a first storage device that stores predetermined data, the history of updates of the data, and the history of backups of the data,

compares the time of the last backup indicated by the backup history with the time of the last update indicated by the update history,

searches for data newly updated since the time of the last backup,

extracts the newly updated data as backup data, and

sends the backup data extracted; and

the wearable computer,

receives the backup data, and

writes the backup data in a second storage device.

10. A data backup program causing a wearable computer to execute a data backup process, backing up data in a data backup system including the wearable computer and a portable information terminal that carries out data communication with the wearable computer, the data backup process, comprising:

receiving a communication identifier of the portable information terminal from the portable information terminal;

comparing the communication identifier received with a communication identifier stored in advance in a predetermined storage device, and permitting connection by the portable information terminal when these identifiers coincide with each other;

receiving backup data from the portable information terminal when connection has been permitted by an authenticating process authentication device; and writing the backup data in the predetermined storage device.